

- So telemetering frequencies of the satellite appear to be as amnounced by the Soviets, subject to Doppler shifts, measurements of which in both the northern and southern hemispheres will give the key to the apoges. On the question of memory storage, source stated that temperature measurements may be conveyed to earth simply by the length of key, but he did not rule out other instruments and the possibility of special transmitters operating only upon interrogation when in the vicinity of the USSR. If an additional telemetering transmitter of the storage type is involved, memory circuits may be used.
- 7. The orbit selected for the satellite is a logical one for this time of year as it affords the best visibility for observers in the USSR. (Note that they used a 65 degree orbit, although Soviet delegates to this conference said it would not be less than 70 degrees.) A 65 degree orbit gives the Soviets some launching gain and they were obviously shooting to get the satellite as high as possible for a number of reasons:
 - a. So that it would stay up longer,
 - b. To permit less horizontal error on launching; and
 - c. To permit observation for the greatest number of revolutions.

(Note that a 65 degree orbit, presuming launching in the neighborhood of 50 degrees, means it was launched in very nearly an east-west direction, giving them as much advantage of the earth's rotation as they could get.)

- On the question of the large antennae reportedly used on this satellite, both Blagonravov and Poloskov were esked how this was managed. They said they did not know as they were not close enough to the technical details.
- 9. It is significant that the Soviets stated at this conference that they will launch satellites at regular intervals throughout the IUT, presumably every month or two, and that their techniques and experiments will steadily improve and become more sophisticated as time goes on. At this conference, the Soviets made it clear that their prison to be clive it interplacetary travels All-of their work so the case the conference in their work so the case the conference of the case the conference of the case the conference of the conference

